

MERCURY AIRCRAFT CORPORATION

MODELS: Mercury BT-120, 2 POLB

T.C. NUMBER: 744

Engine	Ken Royce 7F (See Item 301)
Placard limits	For all operations, 2225 rpm (120 hp)
Propeller	Static rpm at maximum permissible throttle setting - not more than 2110, not less than 2110
	Diameter - not more than 78 in., not less than 76 in.
Placard speeds	Level flight or climb - 125 mph True Ind.
	Glide or dive - 168 mph True Ind.
Fuel capacity	28.5 gallons (one tank in fuselage) (+26)
Oil capacity	2.5 gallons (-32)
No. passengers	1 (+10) or (+67)
Baggage	None
Standard weight	1800 lbs.
C.G. limits	(+12.5) (15.2 percent MAC) and (+19.7) (30.0 percent MAC)
MAC	48 in. L.E. of MAC (+5.2)
Leveling means	Leveling lugs on upper longeron in rear cockpit
Spec. basis	Type Certificate No. 744
Serial Nos.	2 and up eligible (See NOTE A)

Equipment: (Datum is leading edge of lower wing) (* Means net increase)
(See NOTE 2)

Class I.

- | | | | |
|------|---|---------|--------|
| 101. | Propeller - wood (fixed pitch) and hub | 19 lbs. | (-72) |
| 102. | 6.50-8 wheels (Shinn) with hydraulic brakes and 4-ply tires and tubes | 58 lbs. | (+3) |
| 103. | 6x2 tail wheel (Firestone 206-7B) with 6x2 tail wheel tire (solid) | 13 lbs. | (+203) |

Class II.

200. Miscellaneous items as listed under this number on approved weight and balance report.

Class III.

301. Engine
(a) Ken Royce 7G 3 lbs.*
Placard limits same as for 7F

NOTE A. Prior to original certification, each aircraft must satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.
- (b) Final inspection of the completed aircraft.
- (c) Check of flight characteristics.

NOTE 1. Eligible for export as follows, subject to inspection for equipment specified in Chapter XII of Inspection Handbook:

- (a) Canada
 - Landplane.
 - Skiplane - not eligible.
- (b) All other countries except great Britain, Australia and New Zealand.

NOTE 2. Weight and balance report including list of equipment included in certificated weight empty must be submitted for each aircraft with original inspector's report and each subsequent report covering changes in Class I or Class II equipment.

NOTE 3. The following placard must be displayed in the front cockpit in full view of the occupant:
"Solo from rear seat only."